

SEQUENCE LISTING

<110> OZAKI Shuji
ABE Masahiro

<120> Cell Death-Inducing Agent

<130> 14875-141US1

<140> US 10/530,696

<141> 2005-04-08

<150> PCT/JP03/13063

<151> 2003-10-10

<150> JP 2002-299289

<151> 2002-10-11

<160> 14

<170> PatentIn Ver. 2.1

<210> 1

<211> 547

<212> DNA

<213> Mus musculus

<220>

<221> CDS

<222> (103)..(546)

<400> 1

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agtgtcctct ctacacagtc cctgacgaca ctgactccaa cc atg cga tgg agc      114
                               Met Arg Trp Ser
                               1

tgg atc ttt ctc ttc ctc ctg tca ata act gca ggt gtc cat tgc cag      162
Trp Ile Phe Leu Phe Leu Leu Ser Ile Thr Ala Gly Val His Cys Gln
   5                10                15                20

gtc cag ttg cag cag tct gga cct gag ctg gtg aag cct ggg gct tca      210
Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala Ser
           25                30                35

gtg aag atg tct tgt aag gct tct ggc tac acc ttc aca gac tac ttt      258
Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr Phe
           40                45                50

ata cac tgg gtg aaa cag agg cct gga cag gga ctt gaa tgg att gga      306
Ile His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly
           55                60                65

tgg att ttt cct gga gat gat act act gat tac aat gag aag ttc agg      354
Trp Ile Phe Pro Gly Asp Asp Thr Thr Asp Tyr Asn Glu Lys Phe Arg
   70                75                80
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ggc aag acc aca ctg act gca gac aaa tcc tcc agc aca gcc tac att 402
 Gly Lys Thr Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr Ile
 85 90 95 100

ttg ctc agc agc ctg acc tct gag gac tct gcg atg tat ttc tgt gta 450
 Leu Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Met Tyr Phe Cys Val
 105 110 115

agg agt gac gac ttt gac tac tgg ggc cag ggc acc act ctc aca gtc 498
 Arg Ser Asp Asp Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val
 120 125 130

tcc tca gcc aaa aca aca ccc cca tca gtc tat cca ctg gcc cct gct g 547
 Ser Ser Ala Lys Thr Thr Pro Pro Ser Val Tyr Pro Leu Ala Pro Ala
 135 140 145

<210> 2

<211> 148

<212> PRT

<213> Mus musculus

<400> 2

Met Arg Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Ile Thr Ala Gly
 1 5 10 15

Val His Cys Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys
 20 25 30

Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe
 35 40 45

Thr Asp Tyr Phe Ile His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu
 50 55 60

Glu Trp Ile Gly Trp Ile Phe Pro Gly Asp Asp Thr Thr Asp Tyr Asn
 65 70 75 80

Glu Lys Phe Arg Gly Lys Thr Thr Leu Thr Ala Asp Lys Ser Ser Ser
 85 90 95

Thr Ala Tyr Ile Leu Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Met
 100 105 110

Tyr Phe Cys Val Arg Ser Asp Asp Phe Asp Tyr Trp Gly Gln Gly Thr
 115 120 125

Thr Leu Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Ser Val Tyr Pro
 130 135 140

Leu Ala Pro Ala
 145

<210> 3

<211> 535

<212> DNA

<213> Mus musculus

<220>

<221> CDS

<222> (103)..(534)

<400> 3

ctaatacgac tcactatagg gcaagcagtg gtatcaacgc agagtacgcg gggactwatg 60

agaatagcag taattagcta gggaccaaaa ttcaaagaca aa atg cat ttt caa 114
Met His Phe Gln
1

gtg cag att ttc agc ttc ctg cta atc agt gcc tca gtc atc atg tcc 162
Val Gln Ile Phe Ser Phe Leu Leu Ile Ser Ala Ser Val Ile Met Ser
5 10 15 20

aga gga caa att gtt ctc acc cag tcg cca gca atc atg tct gca tct 210
Arg Gly Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser
25 30 35

cca ggg gag aag gtc acc ata acc tgc agt gcc agc tca agt gta agt 258
Pro Gly Glu Lys Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Ser
40 45 50

tac atg cac tgg ttc cag cag aag cca ggc act ttt ccc aaa ctc tgg 306
Tyr Met His Trp Phe Gln Gln Lys Pro Gly Thr Phe Pro Lys Leu Trp
55 60 65

att tat agc aca tcc aac ctg gct tct gga gtc cct act cgc ttc agt 354
Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Thr Arg Phe Ser
70 75 80

ggc agt gga tct ggg acc tct tac tct ctc aca atc agc cga atg gag 402
Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg Met Glu
85 90 95 100

gct gaa gat gct gcc act tat tac tgc cag caa agg acg agt tat cca 450
Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Arg Thr Ser Tyr Pro
105 110 115

ccc acg ttc ggc tcg ggg aca aag ttg gag ata aaa cgg gct gat gct 498
Pro Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala
120 125 130

gca cca act gta tcc atc ttc cca cca tcc agt gag c 535
Ala Pro Thr Val Ser Ile Phe Pro Pro Ser Ser Glu
135 140

<210> 4

<211> 144

<212> PRT

<213> Mus musculus

<400> 4

Met His Phe Gln Val Gln Ile Phe Ser Phe Leu Leu Ile Ser Ala Ser
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 Val Ile Met Ser Arg Gly Gln Ile Val Leu Thr Gln Ser Pro Ala Ile
 20 25 30
 Met Ser Ala Ser Pro Gly Glu Lys Val Thr Ile Thr Cys Ser Ala Ser
 35 40 45
 Ser Ser Val Ser Tyr Met His Trp Phe Gln Gln Lys Pro Gly Thr Phe
 50 55 60
 Pro Lys Leu Trp Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro
 65 70 75 80
 Thr Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile
 85 90 95
 Ser Arg Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Arg
 100 105 110
 Thr Ser Tyr Pro Pro Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
 115 120 125
 Arg Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro Pro Ser Ser Glu
 130 135 140

<210> 5

<211> 789

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially
 synthesized DNA sequence

<220>

<221> CDS

<222> (14)..(775)

<400> 5

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 1 5 10
 ata act gca ggt gtc cat tgc cag gtc cag ttg cag cag tct gga cct 97
 Ile Thr Ala Gly Val His Cys Gln Val Gln Leu Gln Gln Ser Gly Pro
 15 20 25
 gag ctg gtg aag cct ggg gct tca gtg aag atg tct tgt aag gct tct 145
 Glu Leu Val Lys Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser
 30 35 40
 ggc tac acc ttc aca gac tac ttt ata cac tgg gtg aaa cag agg cct 193
 Gly Tyr Thr Phe Thr Asp Tyr Phe Ile His Trp Val Lys Gln Arg Pro

45	50	55	60	
gga cag gga ctt gaa tgg att gga tgg att ttt cct gga gat gat act				241
Gly Gln Gly Leu Glu Trp Ile Gly Trp Ile Phe Pro Gly Asp Asp Thr	65	70	75	
act gat tac aat gag aag ttc agg ggc aag acc aca ctg act gca gac				289
Thr Asp Tyr Asn Glu Lys Phe Arg Gly Lys Thr Thr Leu Thr Ala Asp	80	85	90	
aaa tcc tcc agc aca gcc tac att ttg ctc agc agc ctg acc tct gag				337
Lys Ser Ser Ser Thr Ala Tyr Ile Leu Leu Ser Ser Leu Thr Ser Glu	95	100	105	
gac tct gcg atg tat ttc tgt gta agg agt gac gac ttt gac tac tgg				385
Asp Ser Ala Met Tyr Phe Cys Val Arg Ser Asp Asp Phe Asp Tyr Trp	110	115	120	
ggc cag ggc acc act ctc aca gtc tcc tca ggt gga ggc ggt agc caa				433
Gly Gln Gly Thr Thr Leu Thr Val Ser Ser Gly Gly Gly Gly Ser Gln	125	130	135	140
att gtt ctc acc cag tcg cca gca atc atg tct gca tct cca ggg gag				481
Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly Glu	145	150	155	
aag gtc acc ata acc tgc agt gcc agc tca agt gta agt tac atg cac				529
Lys Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met His	160	165	170	
tgg ttc cag cag aag cca ggc act ttt ccc aaa ctc tgg att tat agc				577
Trp Phe Gln Gln Lys Pro Gly Thr Phe Pro Lys Leu Trp Ile Tyr Ser	175	180	185	
aca tcc aac ctg gct tct gga gtc cct act cgc ttc agt ggc agt gga				625
Thr Ser Asn Leu Ala Ser Gly Val Pro Thr Arg Phe Ser Gly Ser Gly	190	195	200	
tct ggg acc tct tac tct ctc aca atc agc cga atg gag gct gaa gat				673
Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg Met Glu Ala Glu Asp	205	210	215	220
gct gcc act tat tac tgc cag caa agg acg agt tat cca ccc acg ttc				721
Ala Ala Thr Tyr Tyr Cys Gln Gln Arg Thr Ser Tyr Pro Pro Thr Phe	225	230	235	
ggc tcg ggg aca aag ttg gag ata aaa gac tac aag gat gac gac gat				769
Gly Ser Gly Thr Lys Leu Glu Ile Lys Asp Tyr Lys Asp Asp Asp Asp	240	245	250	
aag tga taagcggccg caat				789
Lys				

<210> 6

<211> 253

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially synthesized peptide sequence

<400> 6

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Met Arg Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Ile Thr Ala Gly
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          20           25           30
Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe
          35           40           45
Thr Asp Tyr Phe Ile His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu
          50           55           60
Glu Trp Ile Gly Trp Ile Phe Pro Gly Asp Asp Thr Thr Asp Tyr Asn
          65           70           75           80
Glu Lys Phe Arg Gly Lys Thr Thr Leu Thr Ala Asp Lys Ser Ser Ser
          85           90           95
Thr Ala Tyr Ile Leu Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Met
          100          105          110
Tyr Phe Cys Val Arg Ser Asp Asp Phe Asp Tyr Trp Gly Gln Gly Thr
          115          120          125
Thr Leu Thr Val Ser Ser Gly Gly Gly Gly Ser Gln Ile Val Leu Thr
          130          135          140
Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly Glu Lys Val Thr Ile
          145          150          155          160
Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met His Trp Phe Gln Gln
          165          170          175
Lys Pro Gly Thr Phe Pro Lys Leu Trp Ile Tyr Ser Thr Ser Asn Leu
          180          185          190
Ala Ser Gly Val Pro Thr Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser
          195          200          205
Tyr Ser Leu Thr Ile Ser Arg Met Glu Ala Glu Asp Ala Ala Thr Tyr
          210          215          220
Tyr Cys Gln Gln Arg Thr Ser Tyr Pro Pro Thr Phe Gly Ser Gly Thr
          225          230          235          240
Lys Leu Glu Ile Lys Asp Tyr Lys Asp Asp Asp Asp Lys
          245          250

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<210> 7

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially synthesized adapter sequence

<400> 7

aattcccagc acagtggtag ataagtaag

29

<210> 8

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially synthesized adapter sequence

<400> 8

tcgacttact tatctaccac tgtgctggg

29

<210> 9

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially synthesized primer sequence

<400> 9

caggggccag tggatagact gatg

24

<210> 10

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially synthesized primer sequence

<400> 10

gctcactgga tggtaggaag atg

23

<210> 11

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially synthesized primer sequence

<400> 11

cctgaattcc accatgcat ggagctggat ctttc

35

<210> 12

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially synthesized primer sequence

<400> 12
aatttggtta ccgcctccac ctgaggagac tgtgagagtg gtgccct 47

<210> 13
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:an artificially
synthesized primer sequence

<400> 13
tcctcaggtg gaggcggtag ccaaattggt ctcacccagt cgccagc 47

<210> 14
<211> 68
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:an artificially
synthesized primer sequence

<400> 14
attgcggccg cttatcactt atcgctgtca tcctttagt cttttatctc caactttgtc 60
cccgagcc 68